

## Section 1630

### (B) Outlet Protection at Temporary Slope Drain

Protect outlet locations subject to scour by placing Class B stone or a silt detention device. A special stilling basin may also be used as outlet protection in accordance with Section 1639 and as directed. Construct outlet protection devices as shown in the plans and at other locations as directed.

### 1622-4 MEASUREMENT AND PAYMENT

*Temporary Slope Drains* will be measured and paid in linear feet of pipe, including inlets, tees and elbows, measured along the invert of the temporary slope drain, completed and accepted.

*Sediment Control Stone* will be measured and paid in accordance with Section 1610.

*Stone for Erosion Control, Class \_\_\_\_* will be measured and paid in accordance with Section 1610.

*Silt Excavation* will be measured and paid in accordance with Section 1630.

No payment will be made for temporary slope drains, that were required due to the Contractor's negligence, carelessness or failure to install permanent controls as a part of the work scheduled.

*Temporary Slope Drains* will be considered minor items. Article 104-5, pertaining to revised contract unit prices for overrunning minor items, will not apply to these items.

Payment will be made under:

Pay Item	Pay Unit
Temporary Slope Drains	Linear Foot

## SECTION 1630 CONSTRUCTION AND MAINTENANCE OF SILT DETENTION DEVICES

### 1630-1 DESCRIPTION

Excavate and satisfactorily dispose of all materials excavated in the construction, cleaning out and maintenance of silt basins, silt ditches and other silt detention devices. Work includes, but is not limited to, excavation, shaping of the basins or ditches, cleaning out and maintaining the basins or ditches, disposal of all materials and backfilling.

### 1630-2 CONSTRUCTION METHODS

#### (A) General

Excavate silt basins, silt ditches or other silt detention devices to the dimensions and at the locations shown in the plans or as directed for the purpose of siltation control with non-vertical side slopes and not greater than 1.5:1 slope. Clean out silt detention devices, when so directed, to maintain their effectiveness. Backfill and shape for seeding and mulching silt detention basins and silt ditches before completion of the project unless otherwise directed.

#### (B) Disposal of Materials

Use all excavated materials in the construction of roadway embankments except where otherwise directed. Dispose of materials, which are not used in the construction of roadway embankments in waste areas in accordance with Section 802.

**1630-3 MEASUREMENT AND PAYMENT**

*Silt Excavation* will be measured and paid in cubic yards measured in the original position, of all materials excavated within the limits established by the plans or directed by the Engineer. If in the opinion of the Engineer it is not feasible to measure the excavated material in its original position, the volume will be determined by truck measurement in accordance with Subarticle 230-5, except that no deduction for shrinkage will be made.

The filling of silt basins or silt ditches will be paid as provided in Section 225 for *Unclassified Excavation* or in Section 230 for *Borrow Excavation*, depending on the source of the material used to fill the basins or ditches.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Silt Excavation	Cubic Yard

## SECTION 1631 ROLLED EROSION CONTROL PRODUCTS

**1631-1 DESCRIPTION**

Furnish, place and maintain a rolled erosion control product (matting) on previously shaped and seeded drainage ditches, slopes or other areas at locations shown in the contract or as directed. Work includes providing all materials, excavation and backfilling, placing and securing matting and maintaining the drainage ditch.

The conditions which occur during the construction of the project will determine the quantity of matting placed. The quantity of matting may be increased, decreased or eliminated entirely as directed. Such variations in quantity will not be considered as alterations in the details of construction or a change in the character of the work.

**1631-2 MATERIALS**

Refer to Division 10.

<b>Item</b>	<b>Section</b>
Matting for Erosion Control	1060-8
Staples	1060-8

**1631-3 CONSTRUCTION METHODS**

Place matting immediately following seeding. Provide a smooth soil surface free from stones, clods or debris that will prevent the contact of the matting with the soil. Preserve the required line, grade and cross section of the area covered.

Unroll matting in the direction of the flow of water and apply without stretching so that it will lie smoothly but loosely on the soil surface. Bury the up-channel or top of slope end of each piece of matting in a narrow trench at least 6" deep and tamp firmly. Where one roll of matting ends and a second-roll begins, overlap the end of the upper roll over the buried end of the second roll so there is a 4" overlap. Construct staple checks 4" on center and every 30 ft longitudinally in the matting or as directed. Fold over and bury matting to the full depth of the trench, close and tamp firmly. Overlap matting at least 4" where 2 or more widths of matting are laid side by side.

Place staples across matting at ends, junctions and check trenches approximately 10" apart.

Place staples along the outer edges and down the center of each strip of matting 3 ft apart. Place staples along all lapped edges 10" apart.

Install product with netting on the top side when excelsior or straw matting is used.